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6:30am - 9:00pm Monday through Friday  
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APS is unavailable Thanksgiving Day, Christmas Day,  
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FILE 'USPAT' ENTERED AT 17:26:37 ON 15 JUN 1998

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*           W E L C O M E   T O   T H E           *
*           U . S .   P A T E N T   T E X T   F I L E           *
* * * * *

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=> s starch(W)azure

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          73314 STARCH
          346 AZURE
L1         14 STARCH(W)AZURE

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=> d L1 1-14

1. 5,741,767, Apr. 21, 1998, Peracid based dishwashing detergent composition; John Richard Nicholson, et al., 510/220; 134/25.2; 510/221, 223, 226, 227, 229, 230, 372, 374, 375, 392, 393, 441 [IMAGE AVAILABLE]
2. 5,683,977, Nov. 4, 1997, Dry cleaning system using densified carbon dioxide and a surfactant adjunct; Sharon Harriott Jureller, et al., 510/286; 8/137, 142; 510/285, 291, 466 [IMAGE AVAILABLE]
3. 5,676,705, Oct. 14, 1997, Method of dry cleaning fabrics using densified carbon dioxide; Sharon Harriott Jureller, et al., 8/142, 111; 510/285, 286, 288, 289, 290, 291 [IMAGE AVAILABLE]
4. 5,620,880, Apr. 15, 1997, Protease deletion; Alan Sloma, et al., 435/172.3; 424/93.2; 435/222, 252.31, 252.5 [IMAGE AVAILABLE]
5. 5,610,010, Mar. 11, 1997, Process and apparatus for fragmenting biomaterials; Stefan J. Surzycki, et al., 435/6; 239/338; 422/99, 243; 435/283.1, 285.1; 935/19 [IMAGE AVAILABLE]
6. 5,589,383, Dec. 31, 1996, Protease deletion; Alan Sloma, et al., 435/252.31, 221, 320.1; 536/23.2 [IMAGE AVAILABLE]
7. 5,506,100, Apr. 9, 1996, Process and apparatus for fragmenting biomaterials; Stefan Surzycki, et al., 435/6; 239/338; 422/99, 243; 435/283.1, 285.1; 935/19 [IMAGE AVAILABLE]
8. 5,212,070, May 18, 1993, Secretory signal selection vectors for extracellular protein synthesis in Bacilli; Hilde E. Smith, et al., 435/69.1, 172.3, 252.31, 252.33, 320.1; 530/300; 536/23.7; 935/6, 29, 41, 48, 56, 60, 73, 74, 82 [IMAGE AVAILABLE]
9. 5,171,673, Dec. 15, 1992, Expression of heterologous DNA using the bacillus coagulans amylase gene; Alan Sloma, et al., 435/69.1, 172.3, 202, 252.3, 252.31, 320.1; 935/27, 29 [IMAGE AVAILABLE]
10. 5,037,760, Aug. 6, 1991, Secretory signal selection vectors for extracellular protein synthesis bacilli; Hilde E. Smith, et al., 435/320.1, 69.1, 69.8, 91.41, 172.1, 252.31, 252.33, 252.5; 530/300; 536/23.1, 23.7; 935/6, 29, 48, 56, 60, 74, 82 [IMAGE AVAILABLE]
11. 5,024,941, Jun. 18, 1991, Expression and secretion vector for yeast containing a glucoamylase signal sequence; Gregory T. Maine, et al., 435/69.9, 69.1, 69.8, 202, 203, 204, 205, 254.21, 320.1; 536/23.2, 23.4; 935/47, 48 [IMAGE AVAILABLE]
12. 5,017,477, May 21, 1991, Enhancing DNA sequences derived from the sacQ gene; Alan Sloma, et al., 435/69.1, 172.3, 252.31, 320.1; 935/38, 74 [IMAGE AVAILABLE]
13. 4,927,644, May 22, 1990, Preferential entrainment of enzymes in

cheese curds; Michael V. Arbige, et al., 426/35, 36, 40, 582 [IMAGE AVAILABLE]

14. 4,769,327, Sep. 6, 1988, Secretion vector; Michael A. Stephens, et al., 435/69.8, 69.1, 69.4, 172.3, 252.31, 252.33, 252.35, 320.1; 930/50, 120, 200, 240, 300, 310; 935/11, 14, 29, 47, 48, 73, 74, 75 [IMAGE AVAILABLE]

=> d  
L1 14 kwic

US PAT NO: 4,769,327 [IMAGE AVAILABLE] L1: 14 of 14

DETDESC:

DETD(53)

Amylase activity of the pCR13-encoded .alpha.-amylase, which contained an additional glycine-serine at its carboxy-terminal end, was determined by a **starch-azure** plate assay, carried out as follows. Petri dishes containing a bottom layer of nutrient agar and a top layer of nutrient agar containing blue-colored **starch azure** as an indicator were prepared by first pouring nutrient agar (1.5% agar) into each dish, allowing that layer to solidify, . . . first layer, a top layer (1/3 the volume of the petri dish) containing nutrient agar (1.5% agar) and 0.5% (w/v) **starch azure** (Sigma Cat. No. 57629) and allowing the top layer to solidify. After drying to remove excess moisture, cells were spread. . . hours. Colonies containing cells secreting amylase were detected by the appearance of clear halos on a background of blue colored **starch azure** in the top layer. This two-layer system was found to provide greater sensitivity than systems in which the **starch azure** is distributed throughout all of the nutrient agar on the plate.

DETDESC:

DETD(54)

The . . . of the pCR13-encoded .alpha.-amylase did not appear to affect amylase activity, as judged by the size of halos on the **starch azure** medium described above, although the presence of additional amino acids at the carboxy-terminal end of .alpha.-amylase often does result in some reduction of halo size. Thus measurement of halo size of transformants on **starch azure** agar plates can be used, as it was for the alkaline phosphatase gene in pCR25, below, as a preliminary screen. . . .

DETDESC:

DETD(56)

The . . . and alkaline phosphatase activity using the two-layer plates described above. Of 59 transformants screened, 42% has reduced halo diameters on **starch azure** plates. Approximately half of those transformants that displayed reduced halo sizes also made alkaline phosphatase, as measured by blue halos on X-P plates. No transformants were found that displayed alkaline phosphatase activity without concomitant **starch azure** halo reductions. One transformant that had a reduced halo size and made alkaline phosphatase contained plasmid pCR25.

=> s amylopectin(W)azure

1979 AMYLOPECTIN

346 AZURE  
L2 5 AMYLOPECTIN(W)AZURE

=> d L2 1-5

1. 5,395,927, Mar. 7, 1995, DNA-fragment having the cyclodextrin glycosyltransferase gene; August Bock, et al., 536/23.2; 435/6, 15, 91.1; 536/23.1, 24.1, 24.32; 935/9, 14, 19 [IMAGE AVAILABLE]
2. 5,334,502, Aug. 2, 1994, Method of collecting, identifying, and quantifying saliva; Jangbir S. Sangha, 435/7.21; 422/55, 56, 57, 58, 947; 435/4, 5, 25, 28, 805, 967, 974; 436/164, 165, 169, 518, 528, 530, 805, 810; 600/573, 582, 584; 604/1 [IMAGE AVAILABLE]
3. 5,077,011, Dec. 31, 1991, Dry analytical element containing self-developing substrate for use in analysis of liquid; Yoshikazo Amano, et al., 422/56, 57, 58; 435/4, 21; 436/170 [IMAGE AVAILABLE]
4. 4,435,429, Mar. 6, 1984, Processing aqueous treated cereals; Vernon D. Burrows, et al., 426/18, 331, 463, 471, 482, 507, 553, 573, 589, 622, 626 [IMAGE AVAILABLE]
5. 4,144,306, Mar. 13, 1979, Element for analysis of liquids; John Figueras, 422/56; 435/14, 22; 436/95, 170 [IMAGE AVAILABLE]

=> d  
L2 4 kwic

US PAT NO: 4,435,429 [IMAGE AVAILABLE] L2: 4 of 5

DETDESC:

DETD(30)

Alpha-amylase . . . ground to fine suspension in 10 ml of incubation medium (0.5% NaCl and 0.2% CaCl.sub.2 in water) containing 5 mg **amylopectin azure**. 2.5 cSt. Both assays were conducted with 0.2% .beta.-glucan in dimethyl sulfoxide at room temperature. The lower viscosity of steeped. . .

DETDESC:

DETD(33)

Alpha-amylase . . . ground to fine suspension in 10 ml of incubation medium (0.5% NaCl and 0.2% CaCl.sub.2 in water) containing 5 mg **amylopectin azure**. The suspensions were placed in test tubes and 1.0 ml of toluene was added to each tube to inhibit microbial. . .

=> s amylose(W)azure

3148 AMYLOSE  
346 AZURE  
L3 2 AMYLOSE(W)AZURE

=> d L3 1-2

1. 4,927,644, May 22, 1990, Preferential entrainment of enzymes in cheese curds; Michael V. Arbige, et al., 426/35, 36, 40, 582 [IMAGE AVAILABLE]
2. 4,284,722, Aug. 18, 1981, Heat and acid-stable alpha-amylase enzymes

and processes for producing the same; Masaki Tamuri, et al., 435/94;  
426/48; 435/96, 99, 202, 832 [IMAGE AVAILABLE]

=> d L3 1-2 kwic

US PAT NO: 4,927,644 [IMAGE AVAILABLE]

L3: 1 of 2

DETDESC:

DETD(32)

	+	+	+
Coomassie Blue	+	+	+
Starch Azure	-	-	+
Cellulose Azure			
	-	-	+
<b>Amylose Azure</b>	-	-	+
Celite 577 (filter aid)			
	-	-	+
Activated Carbon			
	-	-	+
Dyed Milk Protein.			

US PAT NO: 4,284,722 [IMAGE AVAILABLE]

L3: 2 of 2

DETDESC:

DETD(95)

The . . . position of the alpha-amylases of the present invention on the polyacrylamide gel was determined by putting the gel on an **Amylose-Azure** agar plate and incubating it at 37.degree. C. The results of this test are illustrated in FIG. 8.

DETDESC:

DETD(107)

	Slant Plate	Seed	Main
Soluble starch			
1.0	3.0	--	--
Corn Starch			
--	--	--	6.0
<b>Amylose azure</b>			
--	0.1	--	--
CSL*	--	--	1.0
Bacto-tryptone			
0.5	0.5	--	--
Yeast ext. 0.5	0.5.		

DETDESC:

DETD(109)

For . . . the plate medium and culturing overnight at 70.degree. C. Clear zones around the colonies were formed by hydrolysis of the **amylose azure** in the plate medium.